

## LISTE DE SEQUENCES

<110> AVENTIS PHARMA  
 INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE M

<120> COMPOSES CAPABLES DE MODULER L'ACTIVITE DE LA PARKINE,  
 SEQUENCES NUCLEOTIDIQUES ET UTILISATIONS

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<170> PatentIn Ver. 2.1

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 Val Ser Val Trp His Leu Gly Thr Leu Ala Arg Arg Val Phe Leu Gly  
 100 105 110  
 Glu Val Ile Ile Pro Leu Ala Thr Trp Asp Phe Glu Asp Ser Thr Thr

115

120

125

Gln Ser Phe Arg Trp His Pro Leu Arg Ala Lys Ala Glu Lys Tyr Glu  
130 135 140

Asp Ser Val Pro Gln Ser Asn Gly Glu Leu Thr Val Arg Ala Lys Leu  
145 150 155 160

Val Leu Pro Ser Arg Pro Arg Lys Leu Gln Glu Ala Gln Glu Gly Thr  
165 170 175

Asp Gln Pro Ser Leu His Gly Gln Leu Cys Leu Val Val Leu Gly Ala  
180 185 190

Lys Asn Leu Pro Val Arg Pro Asp Gly Thr Leu Asn Ser Phe Val Lys  
195 200 205

Gly Cys Leu Thr Leu Pro Asp Gln Gln Lys Leu Arg Leu Lys Ser Pro  
210 215 220

Val Leu Arg Lys Gln Ala Cys Pro Gln Trp Lys His Ser Phe Val Phe  
225 230 235 240

Ser Gly Val Thr Pro Ala Gln Leu Arg Gln Ser Ser Leu Glu Leu Thr  
245 250 255

Val Trp Asp Gln Ala Leu Phe Gly Met Asn Asp Arg Leu Leu Gly Gly  
260 265 270

Thr Arg Leu Gly Ser Lys Gly Asp Thr Ala Val Gly Gly Asp Ala Cys  
275 280 285

Ser Gln Ser Lys Leu Gln Trp Gln Lys Val Leu Ser Ser Pro Asn Leu  
290 295 300

Trp Thr Asp Met Thr Leu Val Leu His  
305 310

&lt;210&gt; 16

&lt;211&gt; 19

&lt;212&gt; ADN

&lt;213&gt; Séquence artificielle

&lt;220&gt;

<223> Description de la séquence artificielle:  
oligonucleotide



<400> 16  
ccagttctgc ctgttcac  
19

<210> 17  
<211> 20  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 17  
ttcaaaacac agaggaggag  
20

<210> 18  
<211> 20  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 18  
gaatttggtc agtttagagg  
20

<210> 19  
<211> 26  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 19  
ttctgggatt tggagagctt tttcac  
26

<210> 20

<211> 22  
<212> ADN  
<213> Séquence artificielle  
  
<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 20  
tctgtctgtc ccacacactg cc  
22

<210> 21  
<211> 19  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 21  
gactggctcc gtctctctg  
19

<210> 22  
<211> 21  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 22  
aagcaacaga atctcccatc c  
21

<210> 23  
<211> 21  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:

## oligonucleotide

&lt;400&gt; 23

gcattgtcaa aattgcccat c  
21

&lt;210&gt; 24

&lt;211&gt; 20

&lt;212&gt; ADN

&lt;213&gt; Séquence artificielle

&lt;220&gt;

<223> Description de la séquence artificielle:  
oligonucleotide

&lt;400&gt; 24

aggcggagaa atacgaagac  
20

&lt;210&gt; 25

&lt;211&gt; 22

&lt;212&gt; ADN

&lt;213&gt; Séquence artificielle

&lt;220&gt;

<223> Description de la séquence artificielle:  
oligonucleotide

&lt;400&gt; 25

gcagagtgag acagccctta ac  
22

&lt;210&gt; 26

&lt;211&gt; 24

&lt;212&gt; ADN

&lt;213&gt; Séquence artificielle

&lt;220&gt;

<223> Description de la séquence artificielle:  
oligonucleotide

&lt;400&gt; 26

cttcctcagg actggcgact tcag  
24

<210> 27  
<211> 24  
<212> ADN  
<213> Séquence artificielle  
  
<220>  
<223> Description de la séquence artificielle:  
oligonucleotide  
  
<400> 27  
caagcggtcg ttcattccaa agag  
24

<210> 28  
<211> 22  
<212> ADN  
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<220>  
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oligonucleotide  
  
<400> 28  
aagaggagat aacccaccag ag  
22

<210> 29  
<211> 20  
<212> ADN  
<213> Séquence artificielle  
  
<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 29  
agggctgctg gctatttttc  
20

<210> 30  
<211> 19  
<212> ADN  
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<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 30  
taagaaatgg gttgtgaac  
19

<210> 31  
<211> 21  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 31  
aagcaacaga atctcccatc c  
21

<210> 32  
<211> 21  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 32  
gcattgtcaa aattgcccac c  
21

<210> 33  
<211> 20  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 33  
aggcggagaa atacgaagac

20

<210> 34  
<211> 22  
<212> ADN  
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<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 34  
gcagagtgag acagccctta ac  
22

<210> 35  
<211> 24  
<212> ADN  
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<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 35  
cttcctcagg actggcgact tcag  
24

<210> 36  
<211> 24  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
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<400> 36  
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24

<210> 37  
<211> 22  
<212> ADN

<213> Séquence artificielle

<220>

<223> Description de la séquence artificielle:  
oligonucleotide

<400> 37

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22

<210> 38

<211> 18

<212> ADN

<213> Séquence artificielle

<220>

<223> Description de la séquence artificielle:  
oligonucleotide

<400> 38

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18

<210> 39

<211> 21

<212> ADN

<213> Séquence artificielle

<220>

<223> Description de la séquence artificielle:  
oligonucleotide

<400> 39

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21

<210> 40

<211> 31

<212> ADN

<213> Séquence artificielle

<220>

<223> Description de la séquence artificielle:  
oligonucleotide

<400> 40  
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31

<210> 41  
<211> 24  
<212> ADN  
<213> Séquence artificielle

<220>  
<223> Description de la séquence artificielle:  
oligonucleotide

<400> 41  
ctgtcttcgt atttctccgc ctg  
24

<210> 42  
<211> 2347  
<212> ADN  
<213> Homo sapiens

<400> 42  
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gggaagaggc gttgcccctg ctggcatagt caggtaccag ccagccagg tattgaacgg  
120  
gctgagcttt tcatgatggg tctgtctgac ctggaaacat cttaaattgga agggcgtgag  
180  
cgcttggtcc atgcagtga gctcttccaa cctgggtcaa cgaaaacgga gaagaaatgg  
240  
cccaagaaat agatctgagt gctctcaagg agttagaacg cgaggccatt ctccagggtcc  
300  
tgtaccgaga ccaggcgggt caaaacacag aggaggagag gacacggaaa ctgaaaacac  
360  
acctgcagca tctccggtgg aaaggagcga agaacacgga ctgggagcac aaagagaagt  
420  
gctgtgcgcg ctgccagcag gtgctggggt tctgtctgca ccggggcgcc gtgtgccggg  
480  
gctgcagcca ccgcgtgtgt gccagtgcc gagtgttctt gagggggacc catgcctgga  
540  
agtgcacggt gtgcttcgag gacaggaatg tcaaaataaa aactggagaa tggttctatg  
600  
aggaacgagc caagaaattt ccaactggag gcaaacaatga gacagttgga gggcagctct  
660  
tgcaatctta tcagaagctg agcaaaattt ctgtggttcc tcctaactcca cctcctgtca



720  
 gcgagagcca gtgcagccgc agtcctggca ggttacagga atttggtcag tttagaggat  
 780  
 ttaataagtc cgtggaaaat ttgtttctgt ctcttgctac ccacgtgaaa aagctctcca  
 840  
 aatcccagaa tgatatgact tctgagaagc atcttctcgc cacgggcccc aggcagtgtg  
 900  
 tgggacagac agagagacgg agccagtctg aactgcggt caacgtcacc accaggaagg  
 960  
 tcagtgcacc agatattctg aaacctctca atcaagagga tcccaaatgc tctactaacc  
 1020  
 ctattttgaa gcaacagaat ctcccatcca gtccggcacc cagtaccata ttctctggag  
 1080  
 gtttttagaca cggaagttaa attagcattg acagcacctg tacagagatg ggcaattttg  
 1140  
 acaatgctaa tgtcactgga gaaatagaat ttgccattca ttattgcttc aaaacccatt  
 1200  
 ctttagaaat atgcatcaag gcctgtaaga accttgcta tggagaagaa aagaagaaaa  
 1260  
 agtgcaatcc gtatgtgaag acctacctgt tgcccgacag atcctcccag ggaaagcgca  
 1320  
 agactggagt ccaaaggaac accgtggacc cgaccttca ggagaccttg aagtatcagg  
 1380  
 tggccccctgc ccagctgggtg acccggcagc tgcaggcttc ggtgtggcat ctgggcacgc  
 1440  
 tggccccggag agtgtttctt ggagaagtga tcattcctct ggccacgtgg gactttgaag  
 1500  
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 1560  
 acagcgttcc tcagagtaat ggagagctca cagtccgggc taagctgggt ctcccttcac  
 1620  
 ggcccagaaa actccaagag gctcaagaag ggacagatca gccatcactt catgggtcaac  
 1680  
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 1740  
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 1800  
 tcctgaggaa gcaggcttgc cccagtgga aacactcatt tgtcttcagt ggcgtaaccc  
 1860  
 cagctcagct gaggcagtcg agcttggagt taactgtctg ggatcaggcc ctctttggaa  
 1920  
 tgaacgaccg cttgcttggg ggaaccagac ttggttcaaa gggagacaca gctgttggcg  
 1980  
 gggatgcatg ctcaaatcg aagctccagt ggcagaaagt cctttccagc cccaatctat  
 2040  
 ggacagacat gactcttgct ctgcactgac atgaaggcct caaggttcca ggttgcagca  
 2100  
 ggcgtgaggc actgtgcgtc tgcagagggg ctacgaacca ggtgcagggt cccagctgga

2160  
gacccctttg accttgagca gtctccatct gcggccctgt cccatggctt aaccgcctat  
2220  
tggtatctgt gtatatattac gttaaacaca attatgttac ctaagcctct ggtgggttat  
2280  
ctcctctttg agatgtagaa aatggccaga ttttaataaa cgttggtacc catgaaaaaa  
2340  
aaaaaaa  
2347

<210> 43  
<211> 610  
<212> PRT  
<213> Homo sapiens

<400> 43

Met	Ala	Gln	Glu	Ile	Asp	Leu	Ser	Ala	Leu	Lys	Glu	Leu	Glu	Arg	Glu	1	5	10	15
Ala	Ile	Leu	Gln	Val	Leu	Tyr	Arg	Asp	Gln	Ala	Val	Gln	Asn	Thr	Glu	20	25	30	
Glu	Glu	Arg	Thr	Arg	Lys	Leu	Lys	Thr	His	Leu	Gln	His	Leu	Arg	Trp	35	40	45	
Lys	Gly	Ala	Lys	Asn	Thr	Asp	Trp	Glu	His	Lys	Glu	Lys	Cys	Cys	Ala	50	55	60	
Arg	Cys	Gln	Gln	Val	Leu	Gly	Phe	Leu	Leu	His	Arg	Gly	Ala	Val	Cys	65	70	75	80
Arg	Gly	Cys	Ser	His	Arg	Val	Cys	Ala	Gln	Cys	Arg	Val	Phe	Leu	Arg	85	90	95	
Gly	Thr	His	Ala	Trp	Lys	Cys	Thr	Val	Cys	Phe	Glu	Asp	Arg	Asn	Val	100	105	110	
Lys	Ile	Lys	Thr	Gly	Glu	Trp	Phe	Tyr	Glu	Glu	Arg	Ala	Lys	Lys	Phe	115	120	125	
Pro	Thr	Gly	Gly	Lys	His	Glu	Thr	Val	Gly	Gly	Gln	Leu	Leu	Gln	Ser	130	135	140	
Tyr	Gln	Lys	Leu	Ser	Lys	Ile	Ser	Val	Val	Pro	Pro	Thr	Pro	Pro	Pro	145	150	155	160
Val	Ser	Glu	Ser	Gln	Cys	Ser	Arg	Ser	Pro	Gly	Arg	Leu	Gln	Glu	Phe				

165

170

175

Gly Gln Phe Arg Gly Phe Asn Lys Ser Val Glu Asn Leu Phe Leu Ser  
 180 185 190  
 Leu Ala Thr His Val Lys Lys Leu Ser Lys Ser Gln Asn Asp Met Thr  
 195 200 205  
 Ser Glu Lys His Leu Leu Ala Thr Gly Pro Arg Gln Cys Val Gly Gln  
 210 215 220  
 Thr Glu Arg Arg Ser Gln Ser Asp Thr Ala Val Asn Val Thr Thr Arg  
 225 230 235 240  
 Lys Val Ser Ala Pro Asp Ile Leu Lys Pro Leu Asn Gln Glu Asp Pro  
 245 250 255  
 Lys Cys Ser Thr Asn Pro Ile Leu Lys Gln Gln Asn Leu Pro Ser Ser  
 260 265 270  
 Pro Ala Pro Ser Thr Ile Phe Ser Gly Gly Phe Arg His Gly Ser Leu  
 275 280 285  
 Ile Ser Ile Asp Ser Thr Cys Thr Glu Met Gly Asn Phe Asp Asn Ala  
 290 295 300  
 Asn Val Thr Gly Glu Ile Glu Phe Ala Ile His Tyr Cys Phe Lys Thr  
 305 310 315 320  
 His Ser Leu Glu Ile Cys Ile Lys Ala Cys Lys Asn Leu Ala Tyr Gly  
 325 330 335  
 Glu Glu Lys Lys Lys Lys Cys Asn Pro Tyr Val Lys Thr Tyr Leu Leu  
 340 345 350  
 Pro Asp Arg Ser Ser Gln Gly Lys Arg Lys Thr Gly Val Gln Arg Asn  
 355 360 365  
 Thr Val Asp Pro Thr Phe Gln Glu Thr Leu Lys Tyr Gln Val Ala Pro  
 370 375 380  
 Ala Gln Leu Val Thr Arg Gln Leu Gln Val Ser Val Trp His Leu Gly  
 385 390 395 400  
 Thr Leu Ala Arg Arg Val Phe Leu Gly Glu Val Ile Ile Pro Leu Ala  
 405 410 415  
 Thr Trp Asp Phe Glu Asp Ser Thr Thr Gln Ser Phe Arg Trp His Pro

420

425

430

Leu Arg Ala Lys Ala Glu Lys Tyr Glu Asp Ser Val Pro Gln Ser Asn  
 435 440 445

Gly Glu Leu Thr Val Arg Ala Lys Leu Val Leu Pro Ser Arg Pro Arg  
 450 455 460

Lys Leu Gln Glu Ala Gln Glu Gly Thr Asp Gln Pro Ser Leu His Gly  
 465 470 475 480

Gln Leu Cys Leu Val Val Leu Gly Ala Lys Asn Leu Pro Val Arg Pro  
 485 490 495

Asp Gly Thr Leu Asn Ser Phe Val Lys Gly Cys Leu Thr Leu Pro Asp  
 500 505 510

Gln Gln Lys Leu Arg Leu Lys Ser Pro Val Leu Arg Lys Gln Ala Cys  
 515 520 525

Pro Gln Trp Lys His Ser Phe Val Phe Ser Gly Val Thr Pro Ala Gln  
 530 535 540

Leu Arg Gln Ser Ser Leu Glu Leu Thr Val Trp Asp Gln Ala Leu Phe  
 545 550 555 560

Gly Met Asn Asp Arg Leu Leu Gly Gly Thr Arg Leu Gly Ser Lys Gly  
 565 570 575

Asp Thr Ala Val Gly Gly Asp Ala Cys Ser Gln Ser Lys Leu Gln Trp  
 580 585 590

Gln Lys Val Leu Ser Ser Pro Asn Leu Trp Thr Asp Met Thr Leu Val  
 595 600 605

Leu His  
 610

<210> 44

<211> 1648

<212> ADN

<213> Homo sapiens

<400> 44

gaaatcatgc ccctcgtaga gcagcaggtc caagcagggc tgctggctat ttttccaaaa  
 60

agtgaggcag ttttaaaaaa aggcggagaa ctagaattat agaataatgg cacattttgt

120  
 gtatttgtaa aactaacggc ttgcatgggt cacaacccat ttcttatgcc tgtgttttcc  
 180  
 ttggcagcaa aattttctgtg gttcctccta ctccacctcc tgtcagcgag agccagtgc  
 240  
 gccgcagtcc tggcaggaag gtcagtgcac cagatattct gaaacctctc aatcaagagg  
 300  
 atcccaaagt ctctactaac cctattttga agcaacagaa tctcccatcc agtccggcac  
 360  
 ccagtaccat attctctgga ggttttagac acggaagttt aattagcatt gacagcacct  
 420  
 gtacagagat gggcaatttt gacaatgcta atgtcactgg agaaatagaa tttgccattc  
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 atggagaaga aaagaagaaa aagtgcatac cgtatgtgaa gacctacctg ttgcccgcac  
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 agggagacac agctgttggc ggggatgcat gctcacaatc gaagctccag tggcagaaag  
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 tcctttccag cccaatcta tggacagaca tgactcttgt cctgcactga catgaaggcc  
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 1440  
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 1500  
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1560  
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 1648

<210> 45  
 <211> 313  
 <212> PRT  
 <213> Homo sapiens

<400> 45

Met Gly Asn Phe Asp Asn Ala Asn Val Thr Gly Glu Ile Glu Phe Ala  
 1 5 10 15

Ile His Tyr Cys Phe Lys Thr His Ser Leu Glu Ile Cys Ile Lys Ala  
 20 25 30

Cys Lys Asn Leu Ala Tyr Gly Glu Glu Lys Lys Lys Lys Cys Asn Pro  
 35 40 45

Tyr Val Lys Thr Tyr Leu Leu Pro Asp Arg Ser Ser Gln Gly Lys Arg  
 50 55 60

Lys Thr Gly Val Gln Arg Asn Thr Val Asp Pro Thr Phe Gln Glu Thr  
 65 70 75 80

Leu Lys Tyr Gln Val Ala Pro Ala Gln Leu Val Thr Arg Gln Leu Gln  
 85 90 95

Val Ser Val Trp His Leu Gly Thr Leu Ala Arg Arg Val Phe Leu Gly  
 100 105 110

Glu Val Ile Ile Pro Leu Ala Thr Trp Asp Phe Glu Asp Ser Thr Thr  
 115 120 125

Gln Ser Phe Arg Trp His Pro Leu Arg Ala Lys Ala Glu Lys Tyr Glu  
 130 135 140

Asp Ser Val Pro Gln Ser Asn Gly Glu Leu Thr Val Arg Ala Lys Leu  
 145 150 155 160

Val Leu Pro Ser Arg Pro Arg Lys Leu Gln Glu Ala Gln Glu Gly Thr  
 165 170 175

Asp Gln Pro Ser Leu His Gly Gln Leu Cys Leu Val Val Leu Gly Ala  
 180 185 190

Lys Asn Leu Pro Val Arg Pro Asp Gly Thr Leu Asn Ser Phe Val Lys  
 195 200 205

Gly Cys Leu Thr Leu Pro Asp Gln Gln Lys Leu Arg Leu Lys Ser Pro  
 210 215 220

Val Leu Arg Lys Gln Ala Cys Pro Gln Trp Lys His Ser Phe Val Phe  
 225 230 235 240

Ser Gly Val Thr Pro Ala Gln Leu Arg Gln Ser Ser Leu Glu Leu Thr  
 245 250 255

Val Trp Asp Gln Ala Leu Phe Gly Met Asn Asp Arg Leu Leu Gly Gly  
 260 265 270

Thr Arg Leu Gly Ser Lys Gly Asp Thr Ala Val Gly Gly Asp Ala Cys  
 275 280 285

Ser Gln Ser Lys Leu Gln Trp Gln Lys Val Leu Ser Ser Pro Asn Leu  
 290 295 300

Trp Thr Asp Met Thr Leu Val Leu His  
 305 310

<210> 46

<211> 21

<212> ADN

<213> Séquence artificielle

<220>

<223> Description de la séquence artificielle:  
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<400> 46

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